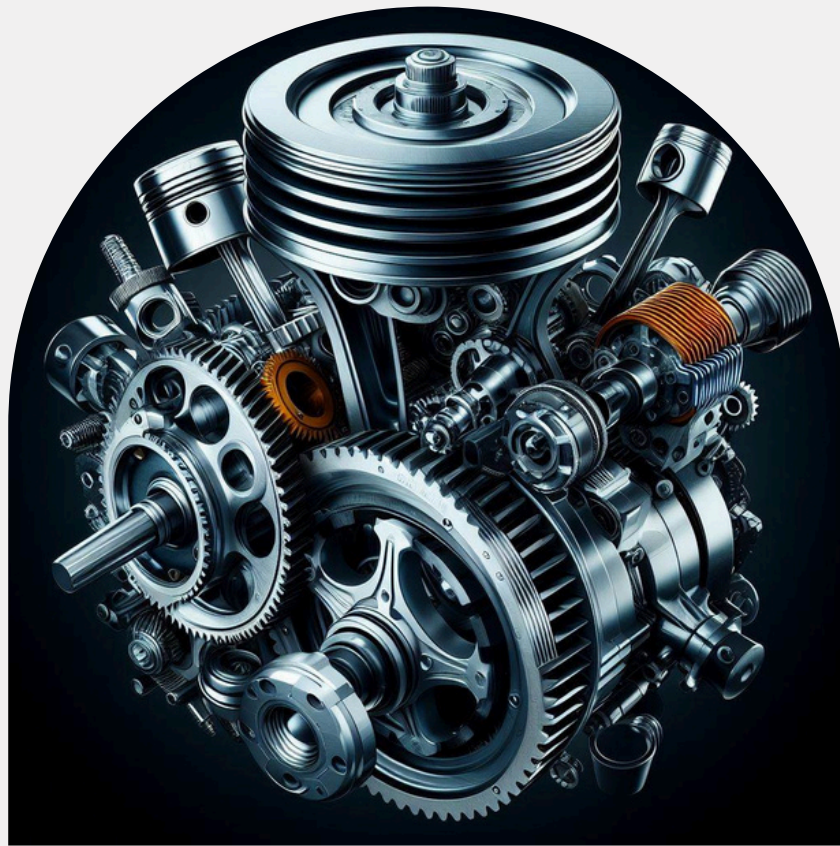


MECH-ZINE



Maharashtra
Institute Of
Technology

EDITION 24

Forward From Editorial Team

Mechzine stands as the flagship quarterly newsletter and magazine representing the Department of Mechanical Engineering. As members of the editorial board, we take great pleasure in offering our readers a diverse array of articles spanning various fields. The active participation and achievements of our students have inspired our writers to explore a multitude of captivating topics for your enjoyment.

Beyond academic pursuits, our students are deeply engaged in numerous extracurricular activities and organizations. This edition radiates with energy, particularly highlighting the vibrant activities of MESA and MCED. Additionally, our newly introduced photography section promises to be a repository of captivating imagery, showcasing monumental moments.

We trust that this visually captivating edition of "MechZine" will captivate and inspire our readers.



DR. A. J. KECHE
(PATRON EDITOR)



PROF. M. N. FAROOQUI
(EXECUTIVE EDITOR)

Editor's Note

The Department of Mechanical Engineering is proud to present the MECHZINE Committee, a vital part of our departmental magazine initiative. MECHZINE, an acronym for Mechanical Engineering Magazine, serves as a platform dedicated to fostering student engagement, personal growth, and professional development within our academic community.

MECHZINE is committed to enhancing student's interactive skills, problem-solving capabilities, time management, and overall personality development. By organizing a variety of co-curricular and extracurricular activities, it aims to contribute to the holistic development of students as future engineers. Additionally, MECHZINE seeks to broaden its leadership's horizons by fostering awareness and appreciation of diverse disciplines.

The MECHZINE Committee was established with the welfare and growth of departmental students at its core. Members are selected through personal interviews for various roles within a structured hierarchy that includes a President, Chief Editor, and Heads of Multidisciplinary Activities. Under the guidance of Prof. M.N. Farooqui, Faculty Advisor for MESA & MECHZINE, the committee meticulously plans its annual calendar of events and activities to ensure maximum benefit for its leadership and their overall development.



Chiragdeep Patil
Chief-Editor

Mech-Zine Office Bearers



Editor-in-Chief
Chiragdeep Patil

Creative Editors
Anuja Waghmare
Aditya Phulbadve

Typography Editors
Mayur Rakde
Sujay Jagdale
Sudarshan Salve

Technical Leads
Akshay Rathod
Dipali Pawar

Live Industry Projects at Liebherr Appliances



Maharashtra Institute of Technology (MIT) has partnered with Liebherr Appliances to provide students hands-on experience through live industry projects in Life Cycle Cooling, Mechanical Engineering, and Cooling. This collaboration bridges the gap between academia and industry, allowing students to apply theoretical knowledge to real-world challenges.

By working on cutting-edge projects, students gain valuable insights into advanced cooling technologies, sustainability, and engineering solutions, enhancing their skills and employability. Such initiatives strengthen industry-institute interaction, preparing future engineers for successful careers in the industry.

Student Innovation Recognized: ₹50,000 Funding for Industrial Projects



The Department of Mechanical Engineering at Maharashtra Institute of Technology proudly celebrates the success of its final-year students, who have secured ₹50,000 in funding for their industrial projects.

These projects are part of the Ready Engineers MSME Innovation Program 2024–25, supported by MASSIA & Tata Technologies Ready Engineer Initiative. This recognition highlights the students' dedication to innovation and industry-driven solutions.

Guided by Dr. Pankaj Zine and Mr. Abhay Gore, with coordination by Mr. Abhay Gore, the students have received valuable mentorship to bring their ideas to life.

Congratulations to all the students and mentors on this remarkable achievement!

Industrial Visit to Marathwada Auto Cluster for Final-Year Students



Final-year Mechanical Engineering students of Dr. Babasaheb Ambedkar Technological University (BATU) recently visited Marathwada Auto Cluster (MAC) for an industrial exposure tour. The visit provided students with valuable insights into advanced manufacturing, precision machining, quality control, and automation in the automotive sector.

Industry experts at MAC guided students through various cutting-edge technologies, MSME support initiatives, and real-world engineering applications. This hands-on experience helped bridge the gap between theoretical learning and industrial practices, preparing students for future careers in the automobile and manufacturing industries.

Such industry visits play a crucial role in enhancing practical knowledge and fostering industry-academia collaboration.

Three-Day Program on "Next Generation Mechanical Engineering"



MIT
G. S. Mandal's
MAHARASHTRA INSTITUTE OF TECHNOLOGY
CHHATRAPATI SAMBHAJINAGAR
(An Autonomous Institute)
NBA Accredited UG Program

Department of Mechanical Engineering

**THREE DAYS WORKSHOP ON
NEXT GENERATION MECHANICAL
ENGINEERING**

Distinguished Speakers

 Mr. Mandar Kulkarni, Findability Sciences	 Dr. Swanini Chopra, MIT	 Mr. Pankaj Prasad, Findability Sciences
 Mr. Rajiv Kulkarni, Sanjeev Auto	 Mr. Yogesh Pawar, IPRO3D TECHNOLOGIES	 Mr. Omkarnath Godbole, Expert Global

Date: 19-21st September 2024 VENUE: Hall No. 308

Organizing Committee

Dr. N.G.Patil Director, MIT	Dr. A.J.Keche HMED & Convener	Mr.S.R.Kulkarni, Organizing Secretary	
Dr.V.B.Pansare Coordinator	Mr.M.N.Farooqui Member	Mr.A.S.Gore Member	Mr. P.A.Lad Member



Three-Day Program on "Next Generation Mechanical Engineering" (Sept 19-21)

The Department of Mechanical Engineering at Dr. Babasaheb Ambedkar Technological University (BATU) successfully organized a three-day program on "Next Generation Mechanical Engineering" from September 19th to 21st.

This event brought together industry experts, researchers, and students to explore advancements in automation, robotics, sustainable engineering, and smart manufacturing. The sessions included technical talks, hands-on workshops, and interactive discussions, providing students with insights into the evolving trends in mechanical engineering.

The program served as a platform for knowledge exchange, skill development, and industry-academia collaboration, equipping students with the expertise needed for future challenges in engineering.

Investiture Ceremony of MESA Held on 5th September



The Mechanical Engineering Student's Association (MESA) held its Investiture Ceremony on 5th September with great enthusiasm. The event marked the official appointment of the new MESA team for the academic year.

Faculty members and dignitaries graced the occasion, congratulating the newly elected members and encouraging them to take on leadership roles in organizing technical events, workshops, and industrial interactions. The ceremony reinforced the spirit of teamwork and innovation among mechanical engineering students.

Best wishes to the MESA team for a successful and productive year ahead!

EV Workshop for Ready Engineer Students



A specialized Electric Vehicle (EV) Workshop was conducted for Third-Year Mechanical Engineering students enrolled in the Ready Engineer Program at CSMSS College, under the Tata Technologies CSR initiative.

The workshop provided hands-on training on EV technology, battery management systems, powertrain components, and sustainable mobility solutions. Industry experts guided students through real-world applications and future trends in electric vehicle engineering, enhancing their practical knowledge.

This initiative aimed to bridge the gap between academic learning and industry requirements, equipping students with essential skills for the evolving automotive and EV sector.

Expert Talk on Engineering Employment & Entrepreneurship



MIT
A Group of Academic & Research Institutions

G. S. Mandal's
MAHARASHTRA INSTITUTE OF TECHNOLOGY
CHHATRAPATI SAMBHAJINAGAR
(An Autonomous Institute)
NBA Accredited UG Program

MESA
Mechanical Engineering Student's Association
2024-25

ON THE OCCASION OF,
TEACHER'S DAY

05.09.2024

1:15 PM

VENUE: Hall No. 202

SPEAKER
Dr. Pramod T. Kale
ME (Gold Medalist), Ph.D. (Mech. Engg.),
M.B.A., MISTE, MIE

**TOPIC: EMERGING TRENDS IN
ENGINEERING EMPLOYMENT &
ENTREPRENEURSHIP
OPPORTUNITIES**

Prof. M. N. Farooqui
Faculty Advisor, MESA

Dr. A. J. Keche
HMED, MIT

Dr. N. G. Patil
Director, MIT



The Mechanical Engineering Student's Association (MESA) at Maharashtra Institute of Technology, Chhatrapati Sambhajnagar, celebrated Teacher's Day on 5th September 2024 with an insightful expert talk by Dr. Pramod T. Kale.

Dr. Kale, a Gold Medalist in Mechanical Engineering, shared his expertise on "Emerging Trends in Engineering Employment & Entrepreneurship Opportunities." His session provided valuable insights into the evolving job market, startup culture, and innovations shaping the engineering sector.

The event, held at Hall No. 202 at 1:15 PM, was graced by esteemed faculty members,

MESA's initiative successfully enriched students with industry knowledge and career guidance, making Teacher's Day a memorable and educational experience.

Culmination Ceremony of "Next Generation Mechanical Engineering" Workshop



The Mechanical Engineering Student's Association (MESA) and the Mechzine Editorial Board of Maharashtra Institute of Technology, Chhatrapati Sambhajnagar, successfully organized the culmination ceremony of the three-day workshop on "Next Generation Mechanical Engineering" on 27th September 2024.

The event featured an expert talk on "Mechanical Engineering in Design: Pathways and Opportunities" by Mr. Tukaram Varak, Technical Director at CAD/CAMBRIDGE Solutions Pvt. Ltd. His insights into mechanical design, career prospects, and industry advancements provided valuable guidance to students. The event provided a platform for students to explore emerging trends in mechanical engineering and design. The workshop served as a crucial step in enhancing industry-academia interaction and preparing students for future challenges in engineering.

The organizers and participants expressed their gratitude for the enriching experience and looked forward to more knowledge-driven initiatives.